RZ/G2L

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General-Purpose MPU with Dual-Core Arm Cortex-A55 CPUs and Single-Core Cortex-M33 CPU with 3D Graphics and Video Codec Engine

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Overview

Description Features Comparison Applications

The RZ/G2L microprocessor includes a Cortex®-A55 (1.2GHz) CPU, 16-bit DDR3L/DDR4 interface, 3D graphics engine with Arm® Mali-G31 and video codec (H.264). It also has many interfaces such as camera input, display output, USB 2.0, and Gbit Ethernet, making it ideal for applications such as entry-class industrial human-machine interfaces (HMIs) and embedded devices with video capabilities.

The RZ/G2L is also package-compatible and pin-compatible with the RZ/G2UL embedded with AI accelerator.

This allows RZ/G2L users to easily upgrade to the RZ/V2L for additional AI functions without needing to modify the PCB, keeping migration costs low.



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Application Note	RZ/G2L PCB verification guide for DDR4/DDR3L ZIP 237.21 MB	May 20, 2024
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RZ MPU Graphics Library Evaluation Version for RZ/G2L and RZ/G2LC — Software Package — Renesas

RZ MPU Graphics Library for RZ/G2L and RZ/G2LC. You can use the graphics function on them by building according to the integration guide which is enclosed in the download file.

RZ/G Multi-OS Package — Software Package — Renesas

RZ/G Multi-OS Package is the software package consisting of Flexible Software Package (FSP) as software package for Renesas MCU with Arm® Cortex-M Core and OpenAMP as standardization API framework for interprocessor communication for developing multi OS solution.

Downloads
- Getting Started with Flexible Software Package
- Setting GPIO with Flexible Software Package
- RZ/G Multi-OS Package V2.0.2
- RZG_FSP_Packs_v2.0.1

RZ MPU Video Codec Library Evaluation Version for RZ/G2L — Software Package — Renesas

This product provides the RZ MPU Video Codec Library for the RZ/G2L. You can use the decoder/encoder on them by building according to the integration guide which is enclosed in the download file.

RZ/G Verified Linux Package [5.10-CIP] — Software Package — Renesas

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Part Number, vs5301

Part Count: 2

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Part Number	Main CPU	Operating Freq (Max) (MHz)	ISP Size	Sub CPU	RAM (KB)	Lead Co
	Cortex-A55 / Cortex-M33 x2	1.2GHz / 200MHz	64	Cortex-M33	1728	484 / 551
R9A07G044L143BGABC0	Cortex-A55	1200	64	Cortex-M33	128	15
R9A07G044L143BGAAC0	Cortex-A55	1200	64	Cortex-M33	128	15

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